

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Previously Presented) A method for fabricating an olfactory sensor on a substrate having a pair of electrodes, said method comprising:
 - a) depositing at least one conducting material as a first layer onto said substrate having a pair of electrodes; and
 - b) depositing at least one non-conductive or insulating polymer film as a second layer onto said first layer of conducting material thereby fabricating said sensor, wherein said olfactory sensor is comprised of at least one sensor composition.
2. (Original) The method according to claim 1, wherein said conducting material comprises carbon black.
3. (Original) The method according to claim 1, wherein said deposition of said conducting material is by aerosol spraying.
4. (Original) The method according to claim 2, further comprising drying said carbon black before deposition of said second layer.
5. (Original) The method according to claim 2, wherein said carbon black layer has a thickness between about 0.01 micron to about 10 microns.
6. (Original) The method according to claim 5, wherein said carbon black layer has a thickness between about 0.1 micron to about 1 micron.
7. (Original) The method according to claim 1, further comprising depositing said first layer of conducting material through a mask.

8. (Original) The method according to claim 7, wherein said mask comprises a plurality of apertures.

9. (Original) The method according to claim 1, wherein said deposition of said first layer of conducting material comprises robotic amateur.

10. (Original) The method according to claim 1, wherein said deposition of said second layer of said polymer film comprises robotic amateur.

11. (Original) The method according to claim 1, further comprising depositing said second layer of polymer film through a mask.

12. (Original) The method according to claim 11, wherein said mask comprises a plurality of apertures.

13. (Previously Presented) The method according to claim 1, further comprising post-processing said second layer of polymer film after depositing upon said first layer of conducting material.

14. (Previously Presented) The method according to claim 13, wherein said post-processing is selected from the group consisting of vacuum processing, photoactive polymerization and cross-linking.

15. (Previously Presented) The method according to claim 1, wherein said sensor is an array of sensors having a first sensor composition and a second sensor composition.

16. (Previously Presented) The method according to claim 15, wherein said first sensor is compositionally different than said second sensor composition.

17. (Previously Presented) The method according to claim 15, wherein said first sensor composition has a different polymer film layer than said second sensor composition.

18. (Original) The method according to claim 1, wherein said substrate comprises a dielectric material.

19. (Original) The method according to claim 1, wherein said substrate further comprises a member selected from the group consisting of a heater, a thermistor and a combination thereof.

20. (Original) The method according to claim 1, wherein said substrate further comprises a member selected from the group consisting of a temperature probe, humidity probe and a combination thereof.

21. (Previously Presented) A method for fabricating an olfactory sensor on a substrate having a pair of electrodes, said method comprising:

- a) depositing a first layer of conducting material onto said substrate having a pair of electrodes to form a substrate having a conducting material disposed thereon;
- b) drying said substrate having a conducting material disposed thereon to remove any solvent;
- c) depositing a second layer of polymer film onto said first layer of conducting material to form a fabricated sensor; and
- d) post-processing said fabricated sensor to cure said second layer of polymer film.

22. (Original) The method according to claim 21, wherein said sensor is an array of sensors.